

IN THE ABSTRACT:

Please substitute the following Substitute Abstract for the originally filed Abstract, a marked-up copy of which indicative of the changes thereto is presented on the following page.

SUBSTITUTE ABSTRACT

An actuating system having an electric motor that is controlled by a computer as a function of a setpoint position of a member that is to be actuated. The actuating system includes an encoder that is dependent on the movement of the motor, a sensor designed to deliver two square digital position signals in quadrature and which are representative of the position of the encoder, a device for processing the signals and which can determine the actual position of the encoder, and a device for comparing the actual position of the encoder with the position of the encoder that corresponds, in theory, to the applied setpoint. The actuating system can be used to actuate a member and/or actuate a device that meters the amount of fuel provided to a heat engine.

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~~The invention relates to a~~An actuating system of the type comprising^{having} an electric motor (1)~~that is~~ controlled by a computer (2) as a function of a ~~position setpoint position of the a~~ member that is to be actuated, ~~said system comprising.~~ The actuating system includes an encoder (3) that is dependent on the movement of the motor (1), a sensor designed to deliver two square digital position signals (A, B) in quadrature and which are representative of the position of the encoder (3), a device (5) for processing the signals (A, B), and which device can determine the actual position of the encoder (3), and a device (6) for comparing the actual position of the encoder (3) with the position of the encoder (3) that corresponds, in theory, to the applied setpoint. The actuating system can be used to actuate a member and/or actuate a device that meters the amount of fuel provided to a heat engine.

~~The invention also relates to methods of actuating a member using such a system and to the use of such a system for actuating a device for metering fuel in a heat engine.~~